

**PATENT**Atty Docket No.: 200208134-1  
App. Ser. No.: 10/632,412**IN THE CLAIMS:**

*Please find below a listing of all of the pending claims. The statuses of the claims are set forth in parentheses.*

1. (Currently Amended) In a real time operating system running on a hardware platform, the operating system for supporting at-least-one a plurality of applications, a processor and at least one hardware resource, the improvement comprising, in combination:

a) a power manager layer; and

b) said power manager layer being arranged to receive real time input from the plurality of applications, wherinc real time input includes a current status and operational requirements of each of said plurality of applications running on the hardware platform; determine a power management adjustment using the received real time input; and exchange information with said at-least-one application, at least one of said processor and said at least one hardware resource, wherinc said information includes the determined power management adjustment, to provide implement real time power management responsive to said at least one real time input information.

2. (Currently Amended) An operating system as defined in Claim 1 wherinc said at least-one plurality of applications includes at least one application-program interface call to said power manager layer.

3. (Currently Amended) An operating system as defined in Claim 2 wherein said at least one call includes the current status of an application of said plurality of applications, the current status comprising at least one of:

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- a) a notification that the application said-at-least-one-application has been initiated; and
- b) a notification that said-at-least-one the application has ended.

4. (Currently Amended) An operating system as defined in Claim 3 wherein the operational requirements of said application is are characterized by:

- a) a utilization profile; and
- b) said utilization profile is transmitted to said power manager with said start call.

5. (Currently Amended) An operating system as defined in Claim 2 3 wherein said at least one call includes the operational requirements for the application, the operational requirements including at least one of:

- a) a notification that said at-least-one application requires at least one hardware resource; and
- b) a notification that said at-least-one application no longer requires said at least one hardware resource.

6. (Original) An operating system as defined in Claim 1 further comprising:

- a) a hardware abstraction layer;
- b) information is exchanged between said power manager layer and said hardware abstraction layer by means of application-interface calls; and

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c) said hardware abstraction layer is arranged to cause said processor to be actuated in accordance with said calls.

7. (Original) An operating system as defined in Claim 1 further comprising:

- a) a driver layer; and
- b) information is exchanged between said power manager layer and said driver layer by means of application-program interface calls.

8. (Original) An operating system as defined in Claim 1 wherein said power manager layer further comprises:

- a) a processor power state selection mode; and
- b) a hardware resource power state selection mode.

9. (Original) An operating system as defined in Claim 8 wherein said power manager layer includes a resource allocation table.

10. (Currently Amended) An operating system as defined in Claim 1 wherein said further comprising a driver layer is arranged to:

- a) receive an application-program interface call including the operational requirements for an application of the plurality of applications, the operational requirements containing a power state instruction concerning a resource from said power manager layer and to generate a corresponding instruction; and

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- b) transmit corresponding information to said a hardware abstraction layer by application-program interface call.

11. (Original) An operating system as defined in Claim 6 wherein said hardware abstraction layer is further arranged to:

- a) exchange information with a driver layer by means of program-interface calls;  
and  
b) cause said at least one resource to be actuated in accordance with said calls.

12. (Currently Amended) A real time power management system for a processor-driven hardware platform for supporting at least one plurality of applications, said platform

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